1984

Naval Postgraduate School Hobby Computer Club / Newsletter No. 8505

Monterey, California, Naval Postgraduate School

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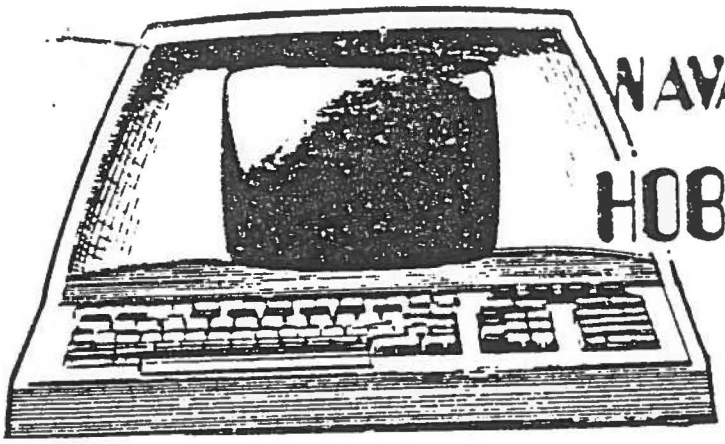

NAVAL POSTGRADUATE SCHOOL HOBBY COMPUTER CLUB

Monterey, Ca. 93940

No. 8405

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CALENDAR

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BOARD MEETING	25 APRIL 1984
GENERAL MEETING	2 MAY 1984
BOARD MEETING	30 MAY 1984
GENERAL MEETING	7 JUNE 1984

From the Editor

Beginning with this issue we will carry the SIG (Special Interest or User's Group) chairmen(persons) in the section set aside as the User's Corner. Please note these are the ones we currently show as active; if there are any others please drop either myself or one of the club officers a note. As a reminder -- next month starts an extended series on specific machines. June is the Apple (all types), July IBM workalikes, etc. We are looking for articles from the SIG's that are both hardware and software oriented. If you have an article you'd like to submit, contact either the SIG chairman or myself to avoid duplicating effort. Deadline is the second Friday following the general club meeting.

Last item -- contests. Deadline for the newsletter banner is 25 April. Attached to this month's newsletter is a ballot for the Article of the Quarter. Please mark it then bring it with you to the May meeting.

-- *Will Dossel*

From the President

Wow! What a great meeting we had last time! There aren't words enough to express our thanks to RICK RAMRAS of Legacy Computer for the show he put on. We had more 16 bit machines than you can shake a stick at!!! Again, Rick, thanks a megabyte for the show (not to mention your support for the club over the years)!

For those of you who may not notice it, this column is somewhat different from the others I've written... the reason is that it's being stored on a ten megabyte hard disk! That's right! I got it up! True, its not running with the 16 bit processor yet, but give me a month and then watch my smoke! Not only that, I'm glad to say that our esteemed editor, Will Dossel, has finally got his modem! That means that he won't have to re-type our inputs anymore. Make sure you create it in the Non--Document mode, then just give him a call and squirt your article to him at 300 or 1200 baud... only keep a backup copy of it when you do. He 'lost' this newsletter during the big power failure last sunday. (Will, don't you SAVE occasionally? (ed: let he who is <u>without</u> sin cast the first stone) Even an E P S O N won't work without electricity!.

Speaking of power failures, PHIL JOHNSON's plans for an uninterruptable power supply are in the Math Department's Computer Lab (that is, unless somebody has walked off with those too!) I'd like to make another pitch for the return of the back newsletters... please bring them back, whoever you are.

Other items of business:

Sorry for the delay in getting out last month's newsletter. It seems we didn't know that we had to:

a) place urgent on our print shop request because the (required) two weeks lead time is a minimum, not a maximum, and
b) call 3 days before the due date to let them know that we wanted it by the due date.

We will try to do better in the future.

We are looking into setting up a club RBBS.

OUR MEMBERSHIP IS APPROACHING THE 200 MARK! (Think of it, over one tenth of the student body are club members!) Our board members have been doing a super job, but it keeps getting bigger. (As an aside, did you know that our Newsletter Editor also serves on the Student Council(and Human Relations Council), and our Secretary also serves with the International Club?) As the club constitution provides for up to three "at-large" board members, I'd like to make a call for help. We are in desperate need of a PARTY! If you're interested, call me at 384-4468 or put a note in my SMC, #1833.

--Rob King

From the Treasurer

==========> WELCOME TO NEW MEMBERS <==========

The Hobby Computer Club offers a warm welcome to the following new members who joined us during the last month.

Name	CPU
MAXIMO BARELA	IBM PC
JIM BASS	KAYPRO 2
JAMES BLAKE	H/Z-100
CHUCK BURMASTER	KAYPRO 2
JAMES CASWELL	EPS QX10
BILLIE CRAWFORD	IBM PC
DALE DITSLER	H/Z-100
ANN EIDSON	NONE
RICHAR ELMS	H/Z-100
MELODIE FIRMATURA	KAYPRO 2
JEFF FULLER	IBM PC
THOMAS GANDY	H/Z-100
STEPHANIE GATES	NONE
CAMERON HALL	KAYPRO 2
ROSEMARY LANDE	IBM PC
TONY LOBAY	H/Z-100
JOHN MAINWARING	H/Z-100
WILLIAM MARSHALL	KAYPRO 2
MARTIN MCCAFFREY	NONE
WILLIAM MCGEE	H/Z-100
ROGER MORAIS	APPLEIIe
JIM NELSON	H/Z-100
MIKE O'BRYANT	KAYPRO 2
KAREN PAGEL	IBM PC
JUSTIN RANDALL	APPLEIIe
DONALD RICHARDS	S-100 CM
RICHARD RILEY	TRS80 M2
CLAUDE ROSS	H/Z-100
JERRY SPICHER	H/Z-100
DEBORAH STILTNER	IBM PC
STEVEN WALKER	NONE
RICHARD WALTERS	KAYPRO 4
DICK WELLER	H/Z-100
MICHAEL WINSLOW	H/Z-100

TOTAL NEW MEMBERS: 22

The User's Corner

CPU	Chairman	Meeting
8" CP/M	Rob King (384-4468)	
Apple	Joe Riggio	
Epson QX-10	Will Dossel (646-0614)	3rd Thursday

CPU	Chairman	Meeting
Heath/Zenith	Dave Smith (373-4202)	3rd Thursday
IBM	Chuck Worley (373-6348 evenings)	
Kaypro	Andy Bowman (624-5208 after 2 PM)	
Osborne	Gene Walkin (646-3216/2421)	
Sanyo 555	Dwight Scott (375-3402)	

EPSON QX-10/HX-20

The QX-10/HX-20 SIG has been formalized and is awaiting its charter from Epson USA. Chairman is Will Dossel (646-0614), Vice Chairman is Eddie Hurt (375-6667), and Secretary-Treasurer is Time Spence (624-5801). Chip Cooper has completed installation of a computer line (646-8171) in anticipation of establishing a local bulletin board service under the aegis of the national user's group.

John Dove has modified MICRO-HOST to make it compatible with the QX-10 (see first article this month for description). I have it on hand and it consists of three files; MENU.COM, SND.COM and RCV.COM. You will need to use DDT.COM to insert your user ID and password for the auto-logon procedure. The user manual is on the club disk, as are the various execs you'll need for your disk at school. This is a super aid and John deserves our heartfelt thanks for his efforts.

Heath/Zenith

A SIG for Heath/Zenith users has been established with DAve Smith as President (373-4202), Steve McGee as Secretary (375-2366), Charles Berlin as Assistant Treasurer (649-4036), Roger Takalo in charge of Publicity (375-1781) and Fred Gorris in charge of the Disk Library (649-6082). Machines supported are:

a. **Heath:** H-8,-89,-100,-150,-160

b. **Zenith:** Z-89,-100,-150,-160

Meetings are on the third Thursday of the month, 7 PM at La Mesa Elementary School Library. Topics for discussion will include new developments for Z-100, GEA deal, Z-DOS(MS-DOS), public domain software, new uses for member's computers, etc.

A final note of interest to all. *Using DBASE II,* by Osborne/McGraw Hill will be available via a group purchase for NPSHCC members only at 20-50% off of the list price. If you would like to reserve one or more copies contact Dave Smith. This book is currently back ordered. *Using MultiPlan* and *Using SuperCalc* will be available when they are published.

Kaypro/5.25" CP/M

New offerings from the NPSHCC CP/M Library:

1. **ZCPR:** a proposed significant upgrade of CP/M 2.2. More resident utilities, greater command level power with respect to multi-user areas and very large file storage capacities. 44K of installation and user documentation. In this offer the system track is already configured for the Kaypro 2/4/10. Users of other micros must supply their own SYSGEN programs and DDT for easy installation. [1 disk]

2. **BUSINESS MASTER II:** A powerful, comprehensive, and complete business package. Menu driven, includes inventory, personnel, G/L, accounts payable, taxation, checkbook, periodic financial reporting, and more. 132K user's manual. This disk offering has been configured to the Kaypro 2/4 terminal and to the Kaypro 2 SSDD 191K floppydisk environment. These adapatation[are not difficult to reconfigure to other environments. [7 disks!]

=> NOTE: BUSINESS MASTER II REQUIRES C/BASIC/2.COM/RUN. Because C/BAS/2 is NOT in the public domain, it is NOT a part of this program offering. <=

>>>>>>>>>>SPECIAL OFFER<<<<<<<<<<

Although SMARTKEY/I is not in the public domain, we have been given special permissionb[its author, Nick Hammond, formerly of NPS, to distribute this powerful utility package to any bonafide (ed: read that to be any <u>paid</u>) member of the NPSHCC for his own non-commercial use and enjoyment. This is with the understanding that it will <u>not be passed on to persons who are not club members.</u> [1 disk including all programs on the original distribution disk, together with the complete user's manual which is now in the form of a 32K text-file.]

Note: although the public domain collection is now stored on 5.25" SSDD Kaypro 2 format disks, we can move programs easily to a number of popular 5.25" formats. For a complete listing give Andy Bowman a call.

Note: *The appearance of personal endorsements of products, organizations or other services in this column is not meant to convey endorsement, either positively or negatively, of such products or services by the NPS Hobby Computer Club.*

Articles

The theme this month is telecommunications and we have two offerings, one from John Dove on the MICRO-HOST software package that eases the anxiety level when talking with the NPS mainframe from home. The other is the ever popular "How to Log on to the Club Disk." Enjoy !

PROCEDURES FOR LINKING WITH THE NPS COMPUTER CLUB DISK

1. Type: **CP LINK ØØ82P 191 AS 194 RR**

   Note: This attaches a line from the club disk (user #ØØ82P), and links the club main disk (#191) to your system. Since you disk is already named 191, you have to access the club disk under a different number (#194).

2. Type: **MICRO**

   Note: This will link you to the club disk. You now have to attach the club disk to your Virtual Machine (terminal)

3. Type: **ACCESS 194 B**

   Note: This allows access to disk #194 and names it B. You now have club disk B on your terminal. Now that you are attached, you can copy files from your B drive (the club disk) to your A drive (your own disk).

4. Type: **LIST * * B**

   Note: This gives you a list of files on the club disk. You will not be able to change any file on the club disk (it is read only), but you can copy any file you desire. The first file you should copy is the **GETCLUB EXEC.** This EXEC will automatically get an update from the club each time you type GETCLUB.

5. Type: **COPY GETCLUB EXEC B = = A**

6. Type: **RELEASE 194 (DET**

   Note: To detach from the club disk and allow your system other access. The DET is important. If you use the **GETCLUB EXEC**, the detach will happen automatically. If you link manually you will have to detach.

INSTALLING AND USING
THE NPSHCC MICRO-HOST MODEM PACKAGE

By J. L. Dove III

Part I: INTRODUCTION

Thanks to the latest version (1.2) the HOSTCM micro-to-mainframe program written by Heinz McArthur (SND.COM and RCV.COM), any COM file can be transferred from just about any micro to another simply and easily via the IBM. This series of articles will describe a procedure for bootstrapping the SND and RCV programs and the NPSHCC MICRO-HOST modem package onto your system.

BACKGROUND

One of the most attractive features of CP/M is the transportability of the majority of programs. (For example, the club's disk labeling program, UNICAT, can be used by any CP/M machine.) The only problem is how to get the programs from one machine to another.

Some machines (most notably, the Kaypro) have a universal disk utility which allows them to read a great deal of formats. If you don't have this capability, however, you're limited to what's immediately available in your format. What we need is a universal way to transfer public domain programs for maximum use by club members.

TA DAAAAAAAA!!!

Enter Heinz's program. He has written a program (SND.COM) to convert any COM file into ASCII characters and store them on the IBM mainframe. His companion program (RCV.COM) takes this file from the IBM and reconverts it to a COM file on a Micro floppy disk. We now have the perfect vehicle for transferring club programs.

OVERVIEW OF THE PROCESS:

Here's an overview of the process we'll discuss in this series:

1. First, get RCV.HEX downloaded and installed for your system;

2. Use RCV.COM to do a binary file download of MENU16.COM;

3. Install MENU16 for your system (including your password);

4. Use RCV.COM to do a binary file download of SND.COM;

5. Install SND.COM for your system;

TOOLS AND INFORMATION YOU'LL NEED:

TOOLS:

1. Any modem program which can receive an ASCII file and save it on disk.

2. The following utilities/programs:

   DDT.COM
   ED.COM or your favorite editor
   (Almost any other editor would be better than ED)

3. Information you'll need about your system:

DATA PORT (DATA): _____

STATUS PORT (STAT): _____

CONTROL PORT (CONT): _____

RECEIVER READY MASK (RXRDY): _____

TRANSMITTER READY MASK (TXRDY): _____

CLEAR SCREEN CHARACTER #1: _____ (Use a space (20 HEX) if you only need one character to clear the screen)

CLEAR SCREEN CHARACTER #2: _____

COMMAND WORD TO SET A BREAK _____

COMMAND WORD TO RELEASE THE BREAK_____

(The file MENU16 MAC (on the CLUB DISK) contains the above equates for several computers.)

Part II: INSTALLING RCV.COM

This series describes portions of the NPSHCC MICRO-HOST Modem package and gives instructions for bootstrapping a system onto your system using only an ASCII-transfer MODEM program. This session describes downloading and installing the receive portion of the system: RCV.COM.

STEP 1: GET RCV.COM WORKING

(Once we get RCV.COM working, we can use this program to download the rest of the COM files quickly and easily without having to go through most of the contortions described below.)

Here's where you need the ASCII modem program. Use your

program to download the file RCV12PRT HEX (on the CLUB DISK on the Mainframe.

If your modem program is not configured to strip the garbage characters from the IBM, you'll have to use an editor to remove 2 or 3 characters at the beginning of the line and any garbage at the beginning and end of the file.

Now, to install it for your system. Type:

DDT RCV12PRT.HEX<CR> (<CR> means carriage return key)

The file should load without a problem. If you get any error messages, exit DDT (Type GØ) and re-edit the HEX file to check for and remove any other garbage characters. If you need, try downloading another copy from the mainframe. When the file loads correctly, make the following changes following the steps described below (the underlined characters are those you should enter).

(For this procedure, it might be helpful to get the Part I page which you filled out for the specific values for your machine. When the procedure calls for DATA, enter the value which applies to your machine.)

-S1FC9<CR>

-1FC9 DB **<CR>** **<CR> leaves the value unchanged**

-1FCA XX **STAT<CR>** **enter the two digit hex value of your Status port**

-1FCB ØØ **<CR>**

-1FCC E6 **<CR>**

-1FCD XX **RXRDY<CR>** **enter the two digit hex value of your Receiver Ready Mask**

-1FCE CA **<CR>**

-1FCF D4 **<CR>**

-1FDØ 1F **<CR>**

-1FDØ DB **<CR>**

-1FD1 XX **DATA<CR>**

-1FD2 ØØ **.<CR> a period exits the S mode**

Now check your changes by typing:

-L1FC9<CR> You should see:

1FC9 IN (STATUS) (your value of the status port)

```
1FCB  NOP
1FCC  ANI (RXRDY)
1FCE  JZ 1FD4
1FD1  IN (DATA)
1FD3  NOP
```

If your code does not look like this, return to the S mode at 1FC9 and reenter the values shown.
Now, repeat at 1FED:

-S1FED<CR>

-1FED DB **<CR> <CR> leaves the value unchanged**

-1FEE XX **STAT<CR> enter the two digit hex value of your Status port**

-1FEF ØØ **<CR>**

-1FFØ E6 **<CR>**

-1FF1 XX **TXRDY<CR> enter the two digit hex value of your Transmitter Ready Mask**

-1FF2 CA **<CR>**

-1FF3 ED **<CR>**

-1FF4 1F **<CR>**

-1FF5 7E **<CR>**

-1FF6 D3 **<CR>**

-1FF7 XX **DATA<CR>**

-1FF8 ØØ **.<CR> a period exits the S mode**

Now check your changes by typing:

-L1FED<CR> You should see:

```
1FED  IN (STATUS)     (your value of the status port)
1FEF  NOP
1FFØ  ANI (TXRDY)
1FF2  JZ 1FED
1FF4  MOV A,M
1FF5  OUT (DATA)
1FF7  NOP
```

If your code does not look like this, return to the S mode at 1FED and reenter the values shown.

You have completed modifications. Exit DDT by typing

-GØ<CR> When you have the A prompt back, type:

A>**SAVE 34 RCV.COM<CR>**

You now should have a working version of RCV.COM

TESTING RCV.COM:

You must have the following EXEC's on your IBM mainframe disk to use the HOSTCM system with RCV.COM:

HOSTCOM EXEC
TERMCAP EXEC

1. Link to the club disk and copy these files to your disk.

2. Locate a small file on your IBM disk to use to test RCV.COM. Let's assume you have chosen the file:

   TEST FILE to download.

Now exit your modem program without breaking the modem connection.

3. Let's assume that you wish to call the file FILE.DOC on your micro disk. To download the file, type:

   A>**RCV FILE.DOC TEST FILE<CR>**

4. In a brief moment, you should see:

   RCV 1.2
   Transferring: Micro: FILE.DOC <===== Host: TEST FILE

---after another brief pause (no more than one full minute), you should see:

Host communications started.
..

--followed by periods marching across the screen, one for each line transferred.

After the file has been transferred, use the CP/M TYPE command to verify that the file was transferred correctly.

Now that we have a working version of RCV.COM, you can use it to download any of your files from the Mainframe. In the next part, we'll use RCV.COM to download the other half of this system, SND.COM.

PART III: DOWNLOADING SND.COM

This session describes downloading and installing the send portion of the system using the program obtained in the last section: RCV.COM.

DOWNLOADING SND.COM

Now that we have a working version of RCV.COM, we can start downloading COM files from the Club Disk. To accomplish this, we have to take advantage of the binary mode switch available in RCV.COM.

1. Use your existing modem program to get logged onto the IBM.

2. Link to the Club disk and copy SND12PRT COM to your disk (if you have not already done so).

3. Download this to your micro by typing (remember, the underlined portion is the part you type):

   A>RCV -b SND12PRT.COM SND12PRT COM<CR>

4. In a moment, you should see:

   RCV 1.2
   Option: binary
   Transferring Micro: SND12PRT.COM <===== Host:
   SND12PRT COM

and, after a few moments, you should see:

   Host communications started.
   .....

and, again, the periods mark the progress of the transfer.

ADAPTING SND.COM TO YOUR SYSTEM

Modifying SND.COM is going to be extremely simple to do. The changes are exactly (yes, exactly) the same as the changes you accomplished to adapt RCV.COM to your system. Retrieve Part II of this series and use the exact same process to modify SND.COM.

Three cautions:

1. Ensure you load SND12PRT.COM to modify, and

2. Ensure you SAVE 34 SND.COM when you complete the changes.

3. Back everything up!

The next part in this series, we'll talk about installing the main body of the NPSHCC MICRO-HOST modem package: MENU17.COM.

* *

>>>> PUBLIC DISCLAIMER AND CLUB POLICY STATEMENT <<<<

Because of the potential for abuse, it must be made perfectly clear that this program is not intended for any use which violates present copyright laws. There will be NO proprietary software on the CLUB disk at any time. Members are encouraged to follow the same policy on their private disks. The responsibility for misuse or abuse of these programs is strictly that of the user.

Advertisements

For Sale: Diablo 630 API Letter Quality Printer with tractor and cable: $ 2,100; Hayes 300 baud Smartmodem with cable: $ 125.00; Morrow MD-2 Home Computer with Wordstar, MBASIC, and much more: $ 1,400; call 375-5217 or 646-3264, ask for Eric

S-100 HARD DISK CONTROLLER FOR SALE

A **Morrow HDCA-2 winchester controller.** For 8" and 14" HARD-sectored winchester drives only! Will control 10 and 20 Megabyte Fujitsu and 26 Megabyte Shugart drives. Tech manual includes software listing for boot program and low-level drivers for BIOS. Definitely not for the timid or unskilled... But WHAT A DEAL!!! $200 call Rob King 384-4468

Miscellaneous Ramblings

NPSHCC Boardmembers:

President: Rob King 384-4468
V. President: Dave Smith 373-4202
Treasurer: John Dove 372-9085
Secretary: Joe Montgomery
Newsletter Editor: Will Dossel 646-0614
Publicity: Harry Sien
Programs and Speakers: Jay Wallen
Projects: Joe Blanchard
Board member-at-large: Glen Oelrich
Party: *VACANT*

We currently have all back issues of the newsletter on hand except for the following:

1982: July, Sept.
1983: April, August, Sept., and Dec.

If you have any of these on hand please contact Will Dossel so we may copy them and complete the club's library.

Programmer's Corner

Wordstar Tip:

Have you ever done a global find and replace on a 128K file under Wordstar? Well, if you have, you probably had enough time to take a shower and grab a sandwich and beer! Here's a tip... a control-S will suspend screen updates, while allowing the find-and-replace to continue. Try it! It took only 98 seconds to replace TAB SPACE SPACE with TAB in Modem 705 (over 5000 occurances!)

--

ROB KING

ARTICLE OF THE QUARTER BALLOT

January:

none submitted

February:

< > PHIL JOHNSON: *The Poor Man's UPS*

March:

< > PHIL JOHNSON: *Apple's Three Dog Night*

< > WILL DOSSEL: *How to Clear the CMOS Memory in the QX-10*

< > JOHN DOVE: *Recovering That Lost File*

< > K. KAPLAN: *WordStar and the Epson MX-80/FT w/GRAFTRAX*

VOTE FOR ONLY ONE !